

Amendments to the Claims:

This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of Claims

1. (currently amended) A method for detecting a critical event in the pilothouse of a vessel, comprising the steps of:

providing a plurality of motion sensors at fixed locations within the pilot house to detect a condition of no motion relative to at least one of the fixed sensors ~~existing~~ within the pilot house; and

determining if a throttle of the vessel is in a forward or reverse condition; and

providing an alarm responsive to ~~asaid~~ no-motion condition if the throttle is in a forward or reverse condition.

2. (original) The method of claim 1, wherein said condition exists only if no motion is detected by a plurality of sensors during the same time interval.
3. (cancelled) The method of claim 1, wherein an alarm is audible only if said condition persists for a specified time interval.
4. (cancelled) The method of claim 1, wherein an alarm is provided only if said condition is detected when a throttle of the vessel is in forward or reverse state.
5. (cancelled) The method of claim 1, wherein said alarm comprises a first alarm activated if said condition persists for a first specified time interval and a second alarm activated if said condition persists for a second specified time interval greater than the first time interval.

6. (original) The method of claim 1, wherein an alarm is inaudible if said condition persists for a first specified time interval and is audible if said condition persists for a second specified time interval greater than the first time interval.
7. (currently amended) The method of claim 1, further comprising a mechanism for recording a history~~the existence and time~~ of conditions for which an alarm is provided.
8. (cancelled) The method of claim 1, further comprising a mechanism for observing the existence and time of conditions for which an alarm is provided.
9. (original) The method of claim 1, wherein said sensors are responsive to a change in spatial distribution of infrared energy within the pilothouse.
10. (currently amended) A system for detecting a critical event in the pilothouse of a vessel, comprising:
 - a plurality of sensors at fixed locations within the pilot house to ~~for~~ detecting a condition of no motion relative to at least one of the fixed sensors ~~existing~~ within the pilot house; and
 - machine-accessible memory located on the vessel to store historical data corresponding to detection of conditions of no motion; and
 - an alarm responsive to said no-motion condition.
11. (cancelled) The system of claim 10, wherein said condition exists only if no motion is detected by a plurality of sensors during the same time interval.
12. (original) The system of claim 10, wherein an alarm is audible only if said condition persists for a specified time interval.
13. (original) The system of claim 10, wherein an alarm is provided only if said condition is detected when a throttle of the vessel is in forward or reverse state.

14. (cancelled) The system of claim 10, wherein said alarm comprises a first alarm activated if said condition persists for a first specified time interval and a second alarm activated if said condition persists for a second specified time interval greater than the first time interval.
15. (original) The system of claim 10, wherein an alarm is inaudible if said condition persists for a first specified time interval and is audible if said condition persists for a second specified time interval greater than the first time interval.
16. (cancelled) The system of claim 10, further comprising a mechanism for recording the existence and time of conditions for which an alarm is provided.
17. (cancelled) The system of claim 10, further comprising a mechanism for observing the existence and time of conditions for which an alarm is provided.
18. (cancelled) The system of claim 10, wherein said sensors are responsive to a change in spatial distribution of infrared energy within the pilothouse.
19. (currently amended) A system for detecting a critical event in the pilothouse of a vessel, comprising:
 - a plurality of sensors at fixed locations within the pilot house responsive to motion within the pilothouse;
 - a mechanism ~~to for~~ determineing an event of if no motion ~~has been~~ detected by a sensor for a specified time interval; and
 - a mechanism in the pilot house to store and display a history of events including events of no detected motion; and
 - an alarm indicating the existence of a condition of no motion for a predeterminable duration of time.

20. (currently amended) The system of claim 19, further comprising a mechanism to communicate a history of events~~the existence of said condition~~ to a place exterior to the pilot house.
21. (new) The system of claim 10, further comprising a tamper alarm to occur if tampering with a sensor is detected.
22. (new) The system of claim 19, further comprising a tamper alarm to occur if tampering with a sensor is detected.
23. (new) The system of claim 19, further comprising a detector to enable the alarm only if a throttle of the vessel is in a forward or reverse state.
24. (new) The system of claim 19, wherein said alarm comprises a first alarm activated if said condition persists for a first specified time interval and a second alarm activated if said condition persists for a second specified time interval greater than the first time interval.
25. (new) The method of claim 1, further comprising determining if a sensor detects no motion for an excessive length of time during which other sensors detect motion to determine if a sensor is faulty.
26. (new) The system of claim 10, further comprising a timing mechanism to determine if a sensor is faulty.
27. (new) The system of claim 19, further comprising a timing mechanism to determine if a sensor is faulty.
28. (new) The system of claim 10, wherein the historical data comprises a time of loss of electrical power in the system.
29. (new) The system of claim 19, wherein the events comprise a loss of electrical power in the system.